

## 9th Quarterly Report (Public)

Date of Report: March 31, 2016

Contract Number: **DTPH5614H00004**

Prepared for: US DOT – PHMSA

Project Title: Improving Models to Consider Complex Loadings, Operations Considerations, and Interactive Threats

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For quarterly period ending: March 31, 2016

**Objective:** Some pipeline failures suggest that interactions of resident conditions with changing operations or environments may increase the probability of failure, reduce the failure stress, change the mode of failure from a leak to a rupture, cause development of a condition not detectable by assessment methods in use, or cause the shift of a condition from stable to unstable. The objective of this project is to develop guidance for pipeline operators in the form of advanced interaction matrices, decision processes.

### **Results and Conclusions:**

Tasks II.C.2 and II.C.3 have been finalized and a report has been submitted.

### **Plans for Future Activity:**

The proposed schedule for 2Q16 is as follows:

- Task II.C.4 - Develop applications for changing environments
- Task III.A.6 - Data share with Electricore
- Task III.A.4 - Task II.C Interim Report

In addition, Task III.A.5 - Annual Peer Review #3 has been scheduled for the end of 2Q16.